

ABSTRACT

In accordance with the present invention, there are provided metal oxide-based phosphor microfine particles comprising a matrix crystal made of a metal oxide and a metal element doped as an emission center into the matrix crystal, wherein the microfine particles are provided with an organic group coordinated to a surface thereof, have a small particle size as well as a high affinity to and a high dispersibility in light-transmittable resins, and are inhibited from scattering light emitted from a light source; a process for producing the metal oxide-based phosphor microfine particles; a dispersion of the metal oxide-based phosphor microfine particles; a fluorescent conversion film; a method of separating the metal oxide-based phosphor microfine particles; a fluorescent liquid; a fluorescent paste; a phosphor; a process for producing the phosphor; and a fluorescent converter.